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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/594,973

09/29/2006

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EXAMINER

TO, BAOQUOC N

ART UNIT

PAPER NUMBER

2162

NOTIFICATION DATE

DELIVERY MODE

03/19/2010

ELECTRONIC

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentmail@whda.com

<b>Office Action Summary</b>	<b>Application No.</b> 10/594,973	<b>Applicant(s)</b> MUKAIDA ET AL.	
	<b>Examiner</b> BAOQUOC N. TO	<b>Art Unit</b> 2162	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 24 December 2009.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) 11-20 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-10 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)         | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)         | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____   | 6) <input type="checkbox"/> Other: _____                          |

### **DETAILED ACTION**

1. In response to the Office Action dated on 10/05/2009, applicant(s) amend the application as follow:

Claims 1-20 are pending.

Claims amended: 1 and 7

Claims 11-20 were withdrawn.

Claims 1-10 were examined.

### ***Response to Arguments***

2. Applicant's arguments with respect to claims 1 and 7 have been considered but are moot in view of the new ground(s) of rejection.

Examiner inadvertently indicate an IDs filed on 07/14/2009; however, according to PTO record, there was no IDs filed on 07/14/2009. Examiner is sorry for the confusion.

Applicant argues Suzuki is silent about this amended feature "the same information about the directory is written, using a processor, the predetermined unit a plurality of times such that the plurality of the same information about the directory..."

Examiner disagrees with the above argument. Suzuki discloses "... a file entry for specifying a file recorded on the recording medium ...the name of the file specified, the information for identifying a recording position of the entity data of the file, are included in the file entry ... the name of the sub-directory specified and the information

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identifying the root entry or the sub-entry specifying the parent directory of the subdirectory are included in the sub-entry..." (col. 2, lines 13-27). The sub-entry when record in the sector will include the parent name and/or id; the same information about the directory are record plurality of time in sub-entry.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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3. Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over by Takahashi et al. (US. Patent No. 6,952,522 B2) in view of Garrisen (US. Patent No. 6,922,759).

As to claim 1, Takahashi discloses an information recording method which is a file system managing files hierarchically by files having information and a directory which is a storage place of a plurality of files, wherein a file system which writes in and reads from a recording medium per predetermined unit is used (the location and attributes such as the number, the recording data & time and the file name of each file on the disc are controlled by referencing the FAT 11. The FAT 11 is used for controlling the information on files in smallest access units, typically sector units, used by the system, that is, the signal recording/playback apparatus for making an access to disc...) (col. 5, lines 56-63).

Takahashi does not explicitly disclose predetermined information is first recorded, by a processor, in a work sector before performing primary recording as well as the number of mountings of the file system is further recorded, using the processor, in the work sector. Garritsen discloses predetermined information is first recorded, by a processor, in a work sector before performing primary recording as well as the number of mountings of the file system is further recorded, using the processor, in the work sector (when the column is mounted , the file system management layer calls the Play list management layer with the first sector of the play list index....) (col. 8, lines 52-67. This suggests the claimed invention such as predetermined information is first recorded in a work sector before performing primary recording as well as the number of

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mountings of the file system is further recorded in the work sector. Therefore, it would have been obvious to one ordinary skill in the art at the time of the invention was made to modify teaching of Takahashi to include the number of mountings of the file system is further recorded in the work sector as disclosed Garrisen in order to reproduce the file.

As to claim 2, Takahashi discloses the information recording method according to claim 1, wherein the work sector comprises two sectors, and wherein the number of mountings is recorded in a first sector, and information contents to be recorded are recorded in a second sector (program 1 is recorded by splitting the data into 3 segments forming a pattern along a straight line..) (col. 5, lines 66 to col. 6, lines 1-3).

As to claim 3, Takahashi discloses the information recording method according to claim 2, wherein the work sector is located in a work sector area having a plurality of sectors, and the work sector is determined when the file system is mounted (disc is mounted...) (col. 5, line 50).

As to claim 4, Takahashi discloses the information recording method according to claim 3, wherein the predetermined information is information about a directory (file system) (col. 6, line 13).

As to claim 5, Takahashi discloses the information recording method according to claim 4, wherein the file system is a FAT file system (FAT) (col. 5, line 55).

As to claim 6, Takahashi discloses a device for recording and/or reproducing information, wherein the information recording method according to any one of claims 1 (recording/playback apparatus) (col. 5, lines 50-54), 2, 3, 4 or 5 is used.

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4. Claims 7-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over by Takahashi et al. (US. Patent No. 6,952,522 B2) in view of Suzuki et al. (Patent No. US 7,447,672 B2).

As to claim 7, Takahashi discloses an information recording method which is a file system managing files hierarchically by files having information and a directory which is a storage place of a plurality of files, wherein a file system which writes in and reads from a recording medium per predetermined unit is used (an additional signal is not split into segments to be each recorded into a free area with a length smaller than a predetermined value, typically a equivalent of 1-minute recoding/play back length) (col. 5, lines 36-39). Takahashi does not disclose the same information about the directory is written, using a processor, in the predetermined unit a plurality of times such that the plurality of the same information about the directory written in the predetermined unit are separated from each other by a predetermined offset. However, Suzki discloses the same information about the directory is written, using a processor, in the predetermined unit a plurality of times such that the plurality of the same information about the directory written in the predetermined unit are separated from each other by a predetermined offset (in the management data recording area, a file entry for specifying a file recorded on the recording medium, a root entry for specifying the upper most order directory in the hierarchical directory structure and a sub-entry for specifying ...) (col. 2, lines 13-27). This suggests the claimed limitation disclose information about the directory is written in the predetermined unit a plurality of times such that the plurality of the information about the directory written in the predetermined unit are separated from each other by a

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predetermined offset. Therefore, it would have been obvious to one ordinary skill in the art at the time of the invention was made to modify teaching of Takahashi to include information about the directory is written in the predetermined unit a plurality of times such that the plurality of the information about the directory written in the predetermined unit are separated from each other by a predetermined offset as disclosed Suzuki in order to reproduce the file.

As to claim 8, Takahashi discloses the information recording method according to claim 7, wherein the file system is a FAT file system (FAT, file allocation table) (col. 5, line 55).

As to claim 9, Takahashi discloses the information recording method according to claim 7, wherein the predetermined offset is half of the predetermined unit, and the information about the directory is doubly written (an additional signal is not split into segments to be each recorded into a free area with a length smaller than a predetermined value, typically a equivalent of 1-minute recoding/play back length) (col. 5, lines 36-39).

As to claim 10, Takahashi discloses a device for recording and/or reproducing information, wherein the information recording method according to any one of claims 7 (recording/playback apparatus) (col. 5, lines 50-51), 8 or 9 is used.

### ***Conclusion***

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP



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§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

#### ***Contact Information***

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Baoquoc N. To whose telephone number is at 571-272-4041, or unofficial fax number for the purpose of discussion (571) 273-4041 or via e-mail BaoquocN.To@uspto.gov. The examiner can normally be reached on Monday-Friday: 8:00 AM – 4:30 PM, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Breene can be reached at 571-272-4107.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

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Washington, D.C. 20231.

The fax numbers for the organization where this application or proceeding is assigned are as follow:

(571) 273-8300 [Official Communication]

/Baoquoc N To/

Primary Examiner, Art Unit 2162